



## Chickamauga and Chattanooga National Military Park Traffic Impact Study and Subarea Transportation Plan



### Table of Contents

<u>Section</u>	<u>Title</u>	<u>Page</u>
	<b>Executive Summary .....</b>	<b>ES-1</b>
<b>1</b>	<b>Traffic Impact Study Area and Battlefield Subarea Plan Development .....</b>	<b>1-1</b>
	Study Background.....	1-1
	Public Involvement and Stakeholder Outreach.....	1-4
	Study Goals.....	1-7
	Data Collection .....	1-8
	Study Area Characteristics.....	1-12
	Needs and Issues Identification .....	1-22
	Improvement Strategy Development.....	1-39
	Air Quality Analysis .....	1-50
<b>2</b>	<b>Traffic Impact Study Area Plan Recommendations.....</b>	<b>2-1</b>
	Overview.....	2-1
	Study Goals.....	2-1
	Recommended Strategies.....	2-2
<b>3</b>	<b>Subarea Transportation Plan Recommendations.....</b>	<b>3-1</b>
	Overview.....	3-1
	Study Goals.....	3-1
	Recommended Strategies.....	3-2
<b>4</b>	<b>Conclusion .....</b>	<b>4-1</b>

### Appendices

- A - Public Involvement Summary
- B - Model Output
- C - Strategies No Longer Under Consideration
- D - Air Quality Documentation



## **Chickamauga and Chattanooga National Military Park Traffic Impact Study and Subarea Transportation Plan**



### **List of Tables**

<b><u>Table</u></b>	<b><u>Title</u></b>	<b><u>Page</u></b>
1.1	PCC, SPP and Public Outreach Meetings Summary .....	1-5
1.2	Project Goals, Objectives and Performance Measures .....	1-8
1.3	Summary of Data and Resources.....	1-10
1.4	Data Collection for Identifying Travel Patterns and Trip Characteristics.....	1-11
1.5	Traffic Impact Study Area Demographic Profile.....	1-13
1.6	Traffic Impact Study Area Major Roadway Functional Classification and Jurisdiction .....	1-15
1.7	Top Five Origin or Destination Cities for Vehicles Traveling into or out of the Chickamauga Battlefield.....	1-18
1.8	Traffic Impact Study Area Daily Level of Service.....	1-24
1.9	Traffic Impact Study Area Daily Traffic Volumes.....	1-26
1.10	Battlefield Subarea Existing Traffic Volumes .....	1-32
1.11	Battlefield Subarea Forecasted Traffic Volumes .....	1-33
1.12	Battlefield Subarea Road Sensitivity Rating.....	1-35
1.13	Improvement Strategy Evaluation Matrix .....	1-44
1.14	Build Alternative Traffic Volume Reductions.....	1-47



**Chickamauga and Chattanooga National Military Park  
Traffic Impact Study and Subarea Transportation Plan**



## List of Figures

<u>Figure</u>	<u>Title</u>	<u>Page</u>
1.1	Study Area Map with Urbanized Area Boundaries .....	1-2
1.2	Historic and Existing Daily Traffic Volumes .....	1-14
1.3	Percent of Non-Park Destined Trips Going Through Chickamauga Battlefield Entrances/Exits.....	1-17
1.4	2003 Base Model Network Volume-to-Capacity Ratios .....	1-25
1.5	E+C Network with 2025 Socioeconomic Data Volume-to-Capacity Ratios.....	1-27
1.6	2025 No-Build Network Volume-to-Capacity Ratios .....	1-28
1.7	2001 Crash Rates Exceeding Statewide Averages.....	1-30
1.8	2002 Crash Rates Exceeding Statewide Averages.....	1-31
1.9	Battlefield Subarea Road Sensitivity .....	1-36
1.10	2025 Recommended Strategies Network Volume-to-Capacity Ratios .....	1-49
2.1	Traffic Impact Study Area Strategies I-1, I-4, I-5, I-6, and I-8 .....	2-4
2.2	Traffic Impact Study Area Strategies II-1, II-2, II-4, and II-5.....	2-14
2.3	Traffic Impact Study Area Strategies III-1, III-2, III-3, and III-5 ..	2-21
2.4	Traffic Impact Study Area Strategies III-4 and III-7 .....	2-22
2.5	Traffic Impact Study Area Strategy III-6.....	2-23
3.1	Battlefield Subarea Strategy IV-3 .....	3-6
3.2	Battlefield Subarea Strategies IV-4 and IV-15 .....	3-9
3.3	Battlefield Subarea Strategies IV-8 and IV-9 .....	3-11
3.4	Battlefield Subarea Strategy IV-10 .....	3-14
3.5	Battlefield Subarea Strategies IV-1, IV-2 and IV-7.....	3-20
3.6	Battlefield Subarea Strategy IV-5 .....	3-24
3.7a	Battlefield Subarea Strategy IV-6 .....	3-26
3.7b	Battlefield Subarea Strategy IV-6.....	3-27
3.8	Battlefield Subarea Strategies IV-11 and IV-12 .....	3-32